

ABSTRACT

A rolling, sliding part is made from a bearing steel, and the rolling, sliding surface thereof has a surface layer portion which is 56 to 64 in Rockwell C hardness, up to 12 vol. % 5 in retained austenite content and 4 to 6 degrees in the X-ray half value width of martensite. Even if made from a common bearing steel, the rolling, sliding part is reduced in the likelihood of developing a WEA or like fatigue structure, consequently exhibiting a prolonged rolling, sliding life for 10 use under severe conditions involving a high temperature, high speed, high load or high vibration.